

Fig. 1A

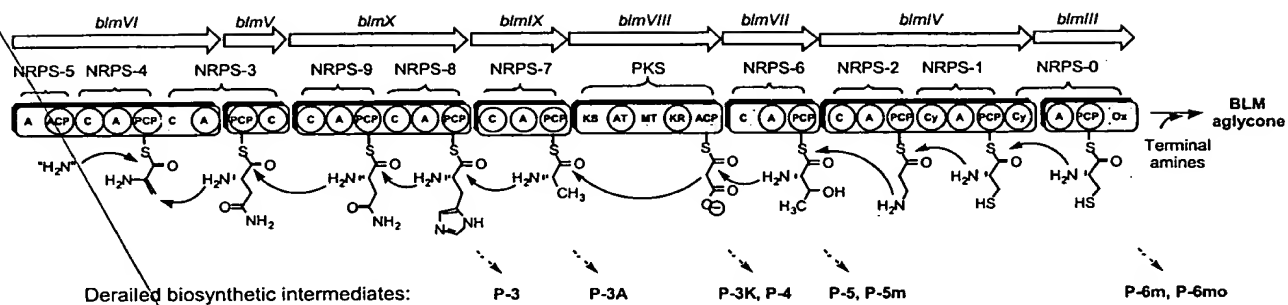


Fig. 1B

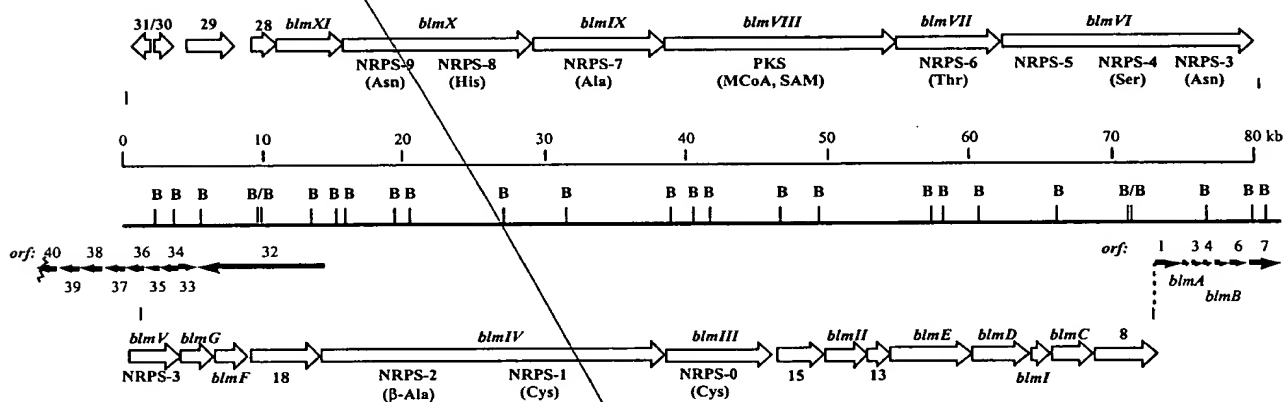


Fig. 2

Fig. 3A

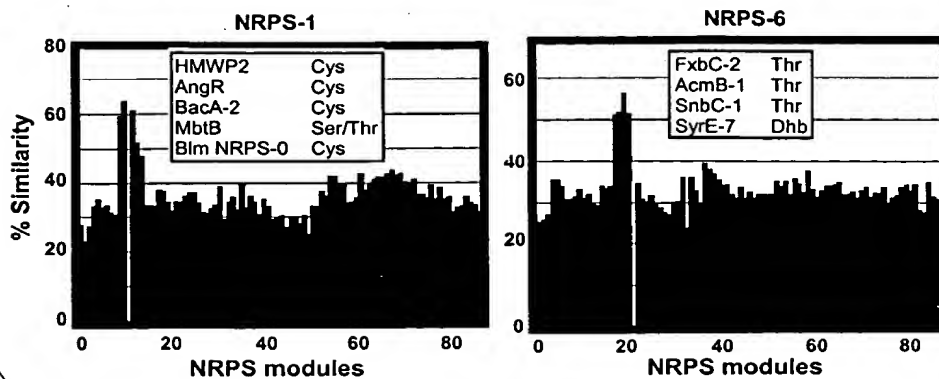


Fig. 3B

NRPS module	Substrate	Residues (PheA numbering) (16)							
		236	239	278	299	301	322	330	331
HMWP2	Cys	L	Y	N	M	S	M	I	W
AngR	Cys	L	Y	N	M	S	M	I	W
BacA-2	Cys	L	Y	N	L	S	L	I	W
MbtB	Ser/Thr	M	L	N	A	G	L	V	H
Blm NRPS-0	Cys	L	Y	H	L	G	L	P	W
Blm NRPS-1	Cys	L	Y	N	L	S	L	I	W
SyrE-7	Dhb	F	W	N	V	G	M	V	H
AcmB-1	Thr	F	W	N	V	G	M	V	H
SnbC-1	Thr	F	W	N	I	G	M	V	H
FxbC-2	Thr	F	W	N	V	G	M	V	H
Blm NRPS-6	Thr	F	W	S	V	G	M	I	H

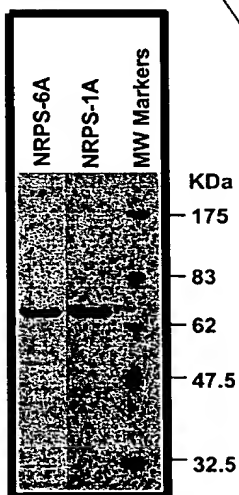


Fig. 3C

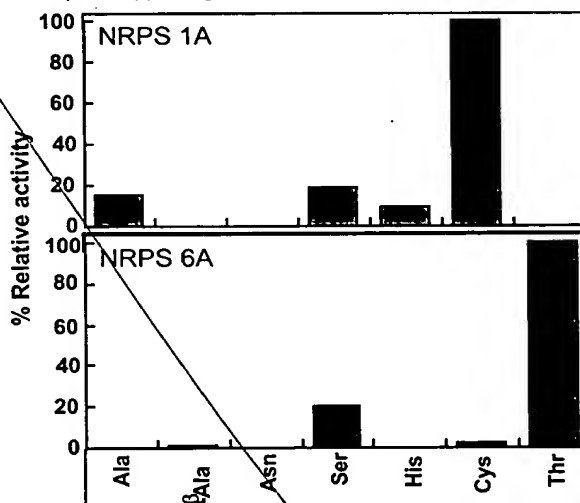


Fig. 3D

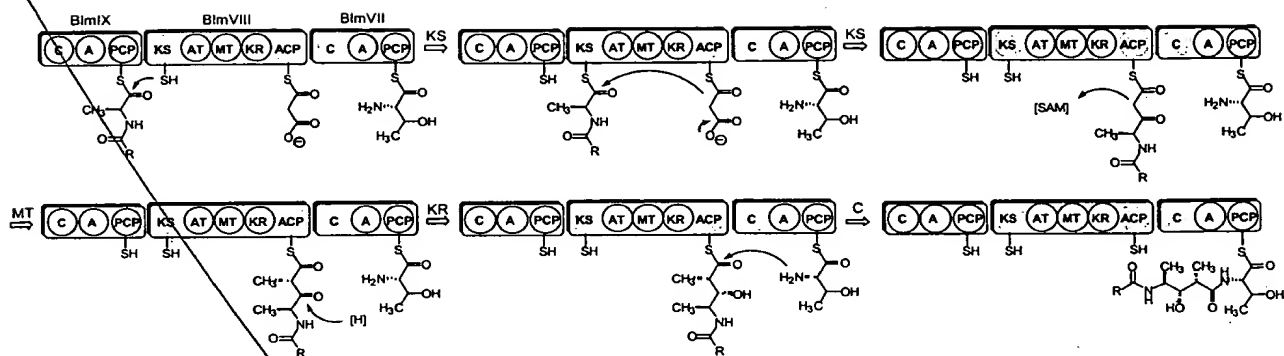


Fig. 4

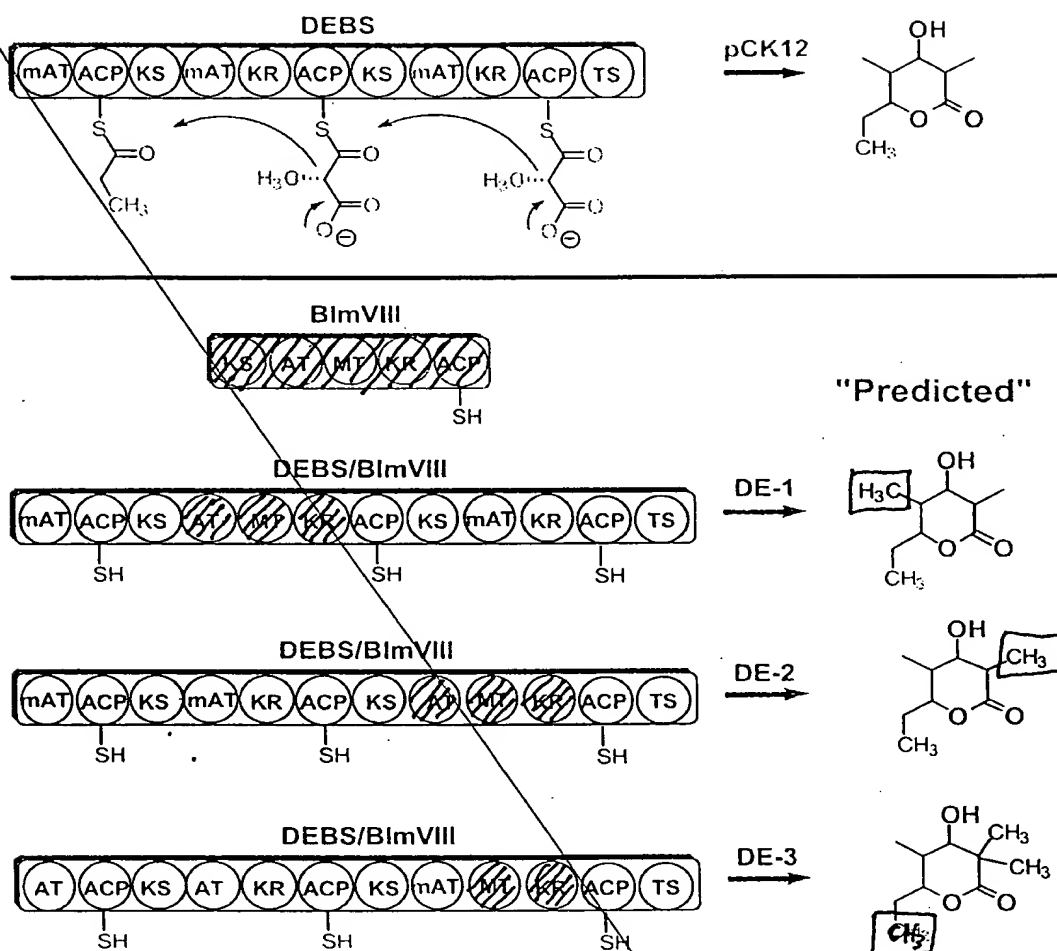


Fig. 5

Fig. 6A

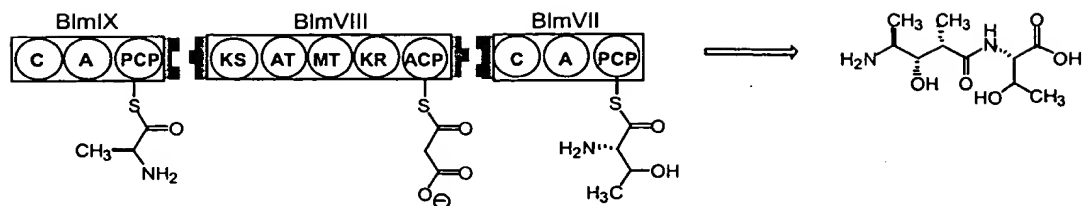


Fig. 6B

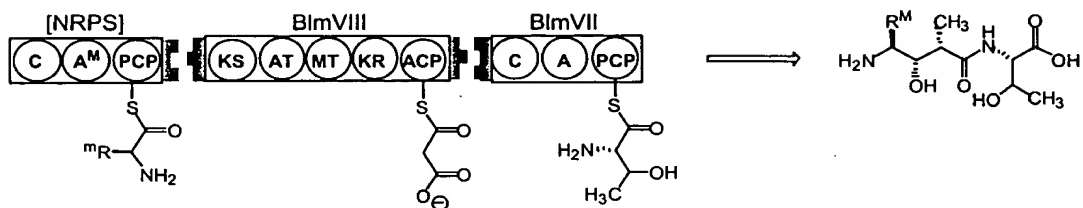


Fig. 6C

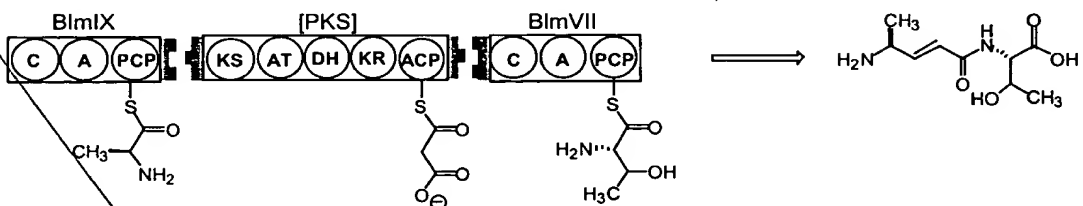


Fig. 6D

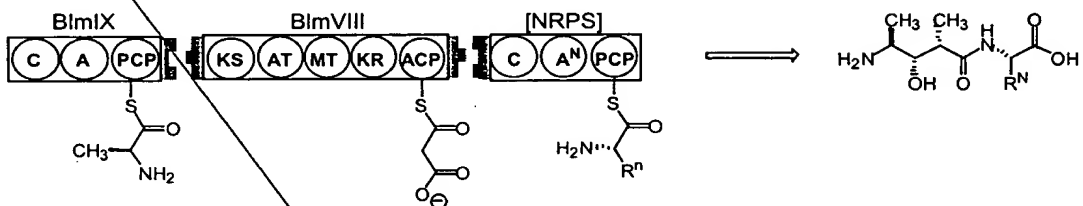


Fig. 6E

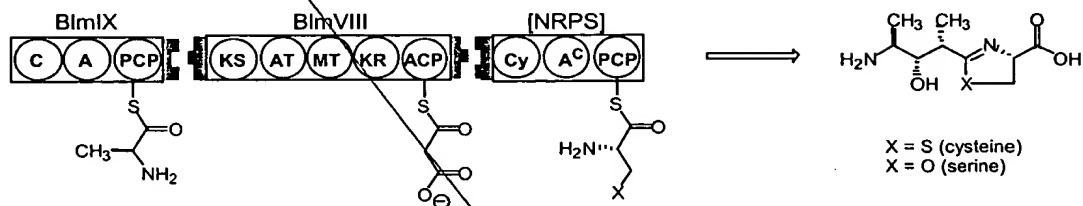
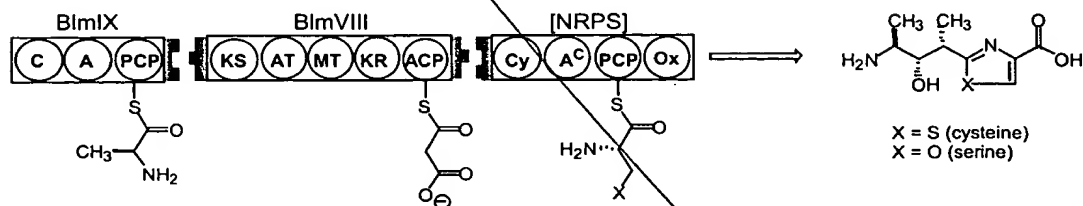


Fig. 6F



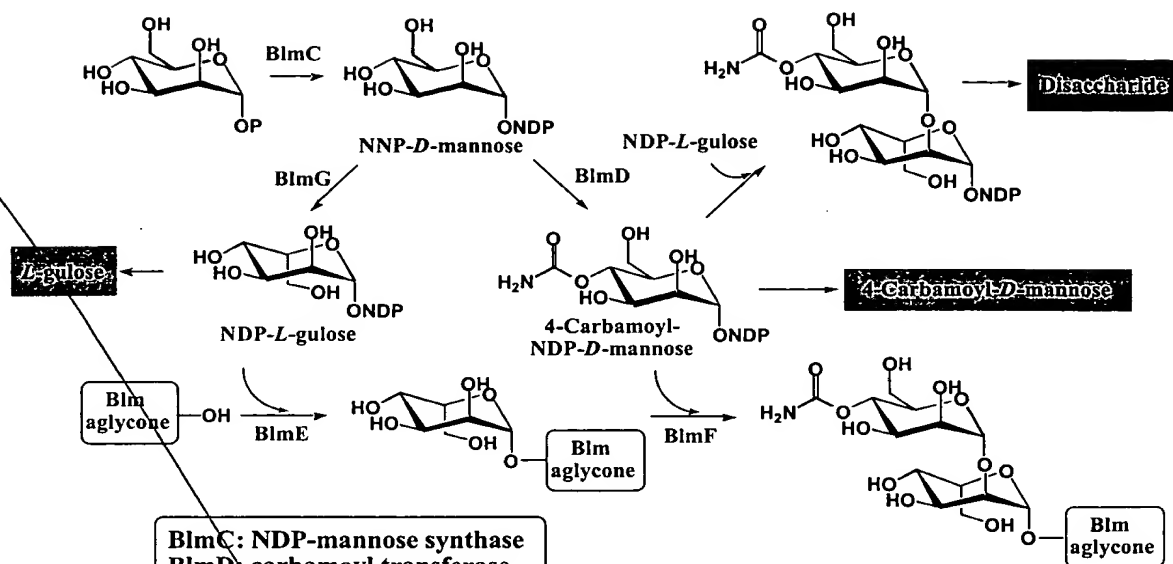


Fig. 7

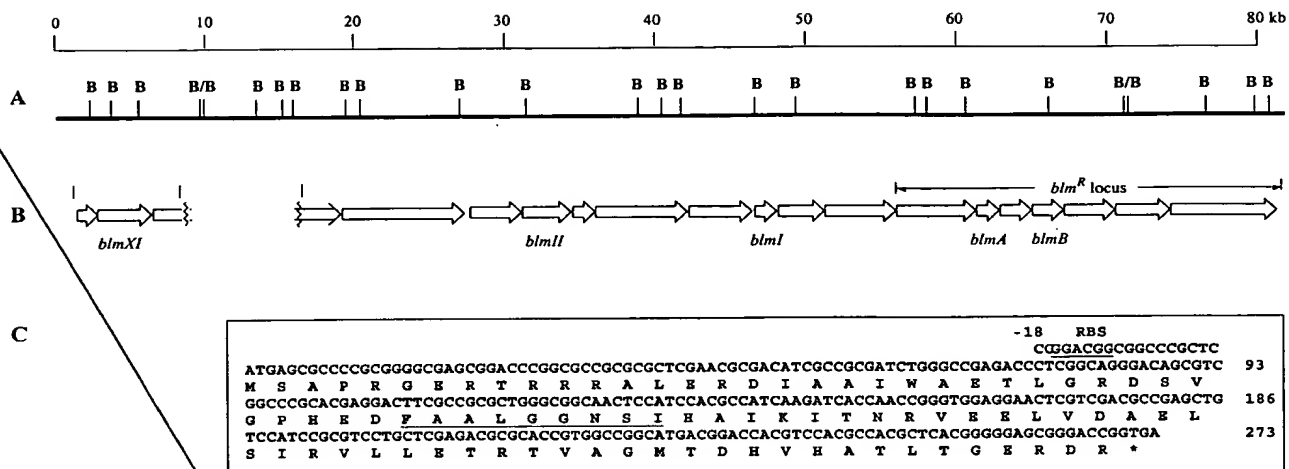


Fig. 8

005070 2364460

Grs-2 3045-ISIGTEYVAPRTMTEGKLEETWKDVGLQRVGTHDDFETISGHSL-3089
 Srfa-3 960-DQLAEWIGPRNEMEETTAQWSEVLGRKQIGHDDFEALGGHSL-1004
 Vir-S 557-GRSVEGRGVPTPQOEILASLFAEVLGLSKVGHEDFEDLGGHSL-601
 Saf-B 1661-LDPGQDYLAAPNEFEARTAAATWEGLLRRERVSVHDSFEDLGGHSL-1705
 BImI 1-MSAPRGERTRRALERDTAAATWAEGLORDSVSPHEDFAALGGHSL-45
 consensus 1-i g eyvapR le ia iw evLgr rvGiHddff lGGhSl- 45

Grs-2 3090-KAMAVISQVHKECQTEVPLRVLEETETIQGLAKYIEETDTEQYMA-3134
 Srfa-3 1005-KAMTAVPH.QQETGIDLVPKLEETAPPIAGISAYLKNNGSDGLQD-1048
 Vir-S 602-LATRLTSRIRTVLGAETIAVRDLEETIVEALAEETLEEAREVRPAL-646
 Saf-B 1706-LATRLATRLAATLOVOAGVRTVEEHRIVAQAHAHFTQATKTHQAH-1750
 BImI 46-HAIKITNRVEELVDAELSIKRVLEETRIYAGMTDHSVHATLTGERDR-90
 consensus 46-kAmrv srv 1 ev vrvlfe pTvagla i g t - 90

Fig. 9

005010-29566460

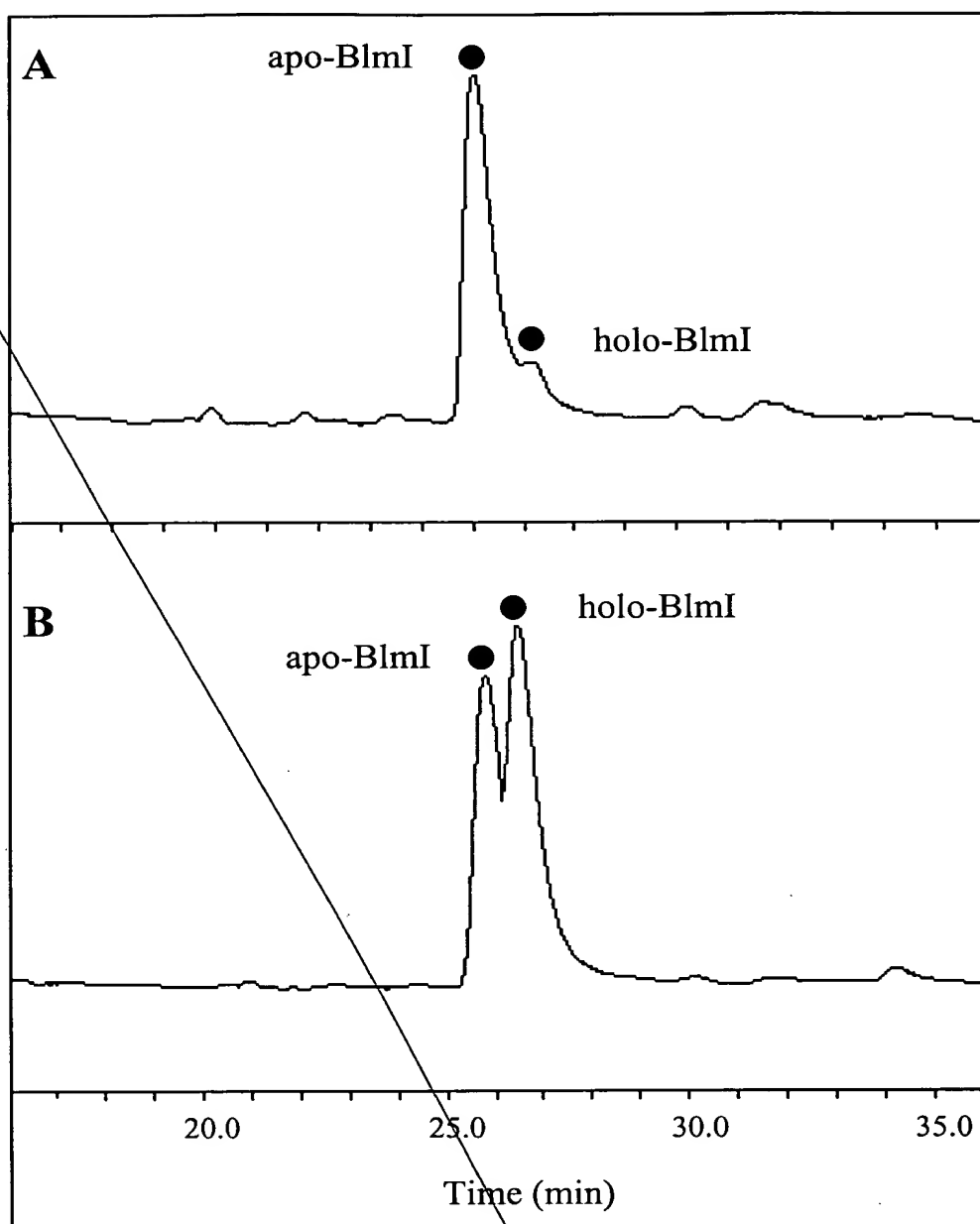


Fig. 10

Nonreiterative Type I Modular Protein Template

Fig. 11A

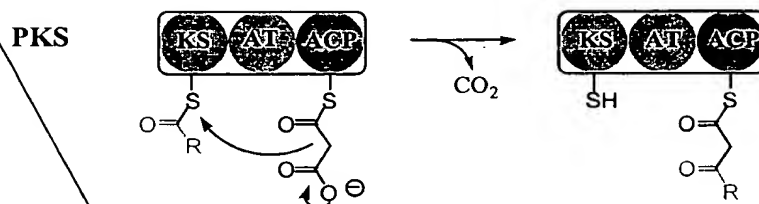
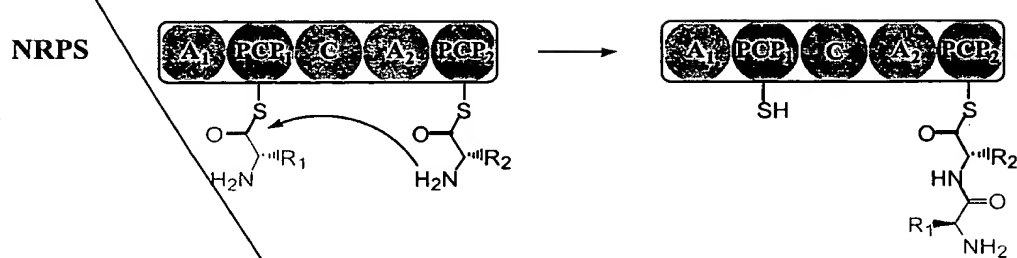


Fig. 11B



Iterative Type II Protein Complex

Fig. 11C

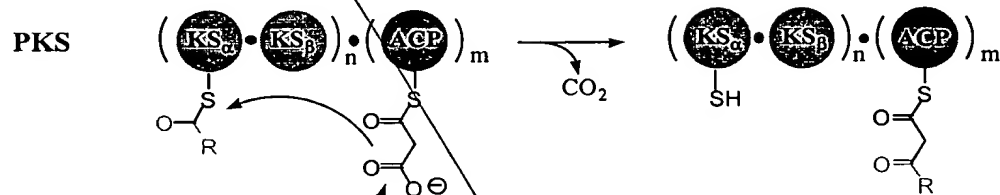
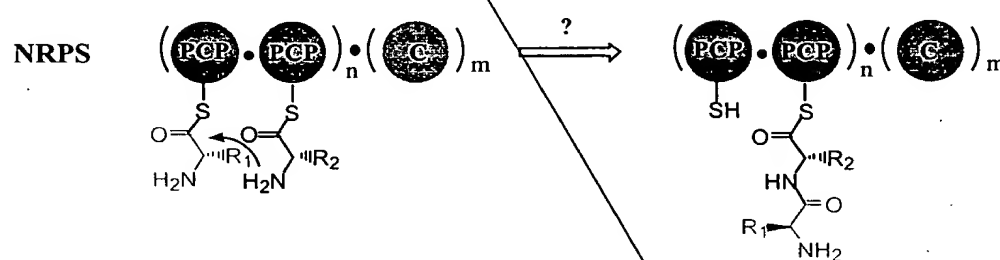


Fig. 11D



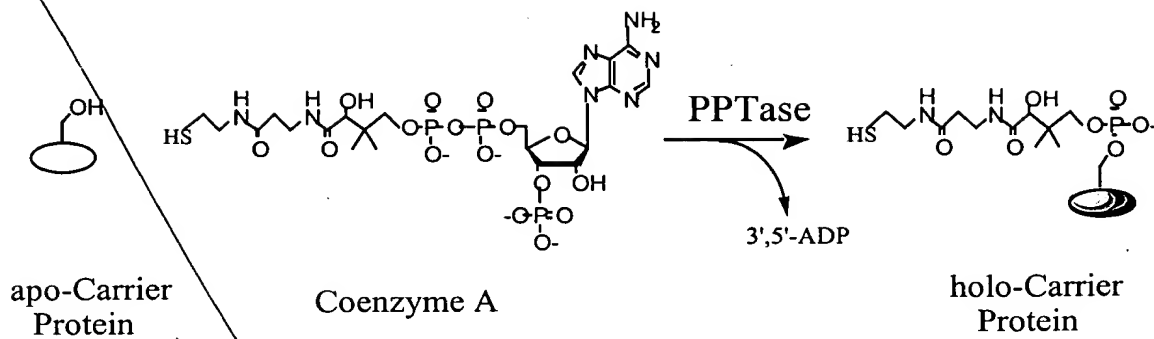


Fig. 12

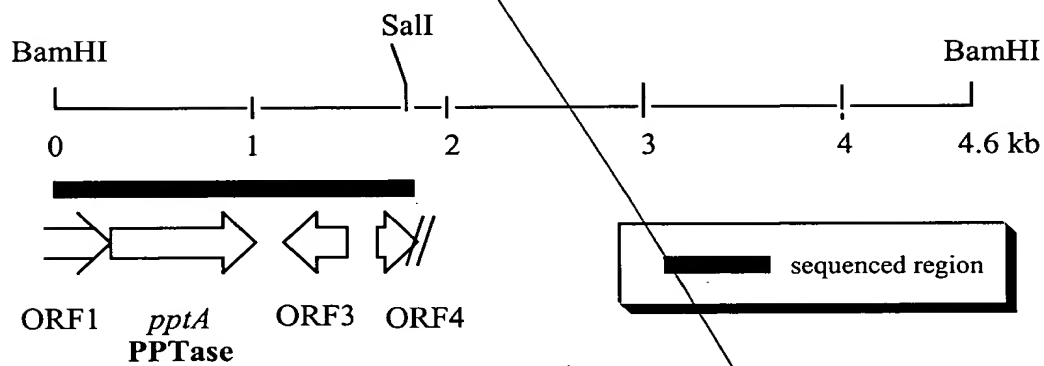


Fig. 13